

#### Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

JUN 18 2007

07-AMCP-0202

Ms. Jane A. Hedges, Program Manager Nuclear Waste Program State of Washington Department of Ecology 3100 Port of Benton Richland, Washington 99354

Mr. Nicholas Ceto, Program Manager Office of Environmental Cleanup Hanford Project Office U.S. Environmental Protection Agency 309 Bradley Blvd., Suite 115 Richland, Washington 99352



#### Addressees:

COMMENT RESPONSES ON THE REMEDIAL DESIGN/REMEDIAL ACTION WORK PLAN FOR THE 221-U FACILITY, DOE/RL-2006-21, DRAFT A, AND DRAFT TRI-PARTY AGREEMENT, AGREEMENT IN PRINCIPLE FOR CENTRAL PLATEAU FACILITY DISPOSITION

The purpose of this letter is to transmit the comment response package for the Remedial Design/Remedial Action Work Plan for the 221-U Facility, DOE/RL-2006-21, Draft A to the State of Washington Department of Ecology (Ecology) and the U.S. Environmental Protection Agency (EPA). Section 9.2 of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Action Plan provides a 30-day period for lead regulatory agency review and response to the comment responses.

Pursuant to Section 9.2 of the Tri-Party Agreement Action Plan, this letter provides a commitment to revise the Remedial Design/Remedial Action Work Plan for the 221-U Facility in response to written comments provided by EPA on March 7, 2007, and March 20, 2007, and by Ecology on March 27, 2007.

Also included is a draft Tri-Party Agreement, Agreement in Principle for Central Plateau Facility Disposition, which replaces the 221-U Facility-specific draft Tri-Party Agreement change package that the U.S. Department of Energy, Richland Operations Office (RL) submitted to the agencies (07-AMCP-0067) on December 20, 2006. The Agreement in Principle includes a proposal to develop milestone language for implementation of the 221-U Facility Record of Decision.

Presuming the agencies respond favorably to the comment responses within 30 days of receipt, RL should be able to provide a revised Remedial Design/Remedial Action Work Plan for the 221-U Facility by October 31, 2007.

If you have any questions, please contact me, or your staff may contact Matt McCormick, Assistant Manager for the Central Plateau, on (509) 373-9971.

Sincerely,

Michael J. Weis

Acting Manager

AMCP:WCW

Enclosures

cc w/encls:

G. Bohnee, NPT

S. Harris, CTUIR

R. Jim, YN

S. L. Leckband, HAB

K. Niles, ODOE

Administrative Record, (221-U Facility [U Plant CDI])

Environmental Portal

cc w/o encls:

R. H. Engelmann, FHI

J. E. Hyatt, FHI

R. E. Piippo, FHI

J. R. Robertson, FHI

J. M. Stevens, FFS

J. G. Vance, FFS

R. E. Wilkinson, FFS

#### ENCLOSURE 1

Comment Responses on DOE/RL-2006-21, Draft A Remedial Design/Remedial Action Work Plan for the 221-U Facility

Consisting of 24 pages, including cover page

:		DEMEW CO	MARKENIT D	ECORD (BCB)			1. Date		:	2. Revie	w No.
		KEVIEW CO	IATTATE LA L. 1.2	ECORD (RCR)			3. Proje	ct No.		4. Page	1 of 3
Draft	cument Number(s)/ M85-06-01 Mileston J Facility	Fitle(s): e Change Package for the Di	sposition of the	6. Program/Project/Buildin 221-U Canyon	g Number	7. Reviewer C. E. Cameron		_	ization/Group VHanford Project	ation/Group 9. Location Hanford Project Office 309 Bradle 115/376-8	
17. Gc	mment Submittal Ap	proval:	10. Agreement w	with indicated comment disposition(s)			11. CLOS	ED			
	Organization Ma	nager (Optional)		Reviewer	/Point of Cor	ntract		•	Re	viewer/P	oint of Contact
			Date	Auth	or/Originator	r		Date		Author	'Originator
12. Item	13. Page/Line		mment(s)/Discrepa cal justification for			15. Recomme etailed recommer ary to correct/res	ndation of the		16. Disposition		
1	Change form	The 1996 AIP for the used by the Tri-Parties Environmental Respondent (CERCLA) remeded and building (221-plan going out to public DOE demonstrate how Plan Section 8 require facility. DOE did not produced a cross walk staff including the DO detailing how the Sectifacility were being me investigation/feasibility decision, and remedial documents. It is ironic form with such a heavy The change form must CERCLA remedial action with ROD requirements and remedial action with make the form more controlled.	to select the Case, Compensatial action procured U Facility). Procured to the Tri-Party ments were bears on 8 requirements to the Various of	comprehensive tion, and Liability tess for the U Plant rior to the proposed PA requested that Agreement Action ing met for this key s request and so EPA hared with project ect Director) hents for this key is remedial sed plan, record of medial action s written the change section 8 disposition. focus on the cluding referring to CLA remedial design ectivities. This will					Plateau Fac Agreement revision to t change pacl	ility De in Prin he M85 kage. It scussio	draft Central ecommissioning ciple in lieu of a 5-06-01 milestone t is expected that us will address ediation.

• • • • •

	•	PEVIEW COMMENT DECORD (BOD)		1. Date		2. Review No.
		REVIEW COMMENT RECORD (RCR)		3. Project No.		4. Page 2 of 3
12. Item	13. Page/Line	Comment(s)/Discrepancy(s)  (Provide technical justification for the comment)	15. Recommend (Provide detailed recommenda necessary to correct/resolv	ation of the changes	(Provide	16. Disposition justification if NOT accepted.)
2	Milestone descriptions	It is not clear that the creation of an M-85 milestone series is the optimal approach for the 221-U Facility remedial action milestones. Regardless, EPA expects all remedial action milestones for the Central Plateau to be consistent with the M-016 major milestone for completion of remedial actions by September 30, 2024. The draft milestone package included a milestone for completion of the remedial action with a "TBD" or To-Be-Decided date that would be no later than September 30, 2024. EPA believes that the date provided for this milestone at the end of the 60-day extension must be significantly earlier than the 2024 date as there are going to be many activities across the 200 Area that must be performed in advance to assure that all remedial actions meet the 2024 date. DOE should not have formally transmitted a change package with a "TBD" date for one of the interim milestones. An actual date should have been provided.			Plateau Fa Agreement revision to change pac follow-on d	cility Decommissioning in Principle in lieu of a the M85-06-01 milestone kage. It is expected that liscussions will address lity remediation end date.
3	Milestone descriptions	The milestone for removing the contents of the vessel in Cell 30 and subsequent disposal should not contain the word "disposition." This implies that there is an option to the record of decision requirement to remove all waste remaining above TRU levels after stabilization. Studies performed by DOE have clearly indicated that the material will remain well above 100 nCi/g in transuranic content after stabilization. The milestone must be consistent with the record of decision requirement. However, this milestone is not really necessary because the revised Tri-Party Agreement now contains a requirement for DOE to submit to the regulatory agencies a Remedial Design Report that must include 90% design for the remedy. As indicated in previous EPA comments, DOE needs to include an item in the schedule contained in the work plan for submittal of the Remedial Design Report.			Plateau Fa Agreement revision to change pac follow-on d 221-U Faci Accept; Fig Design/Rei for the 221 21, Draft A provision o	nitting a draft Central cility Decommissioning in Principle in lieu of a the M85-06-01 milestone ckage. It is expected that liscussions will address lity remediation.  gure 3-1 from the Remedial nedial Action Work Plan -U Facility (DOE/RL-2006- L) will be revised to include of 90% design information lial Design Report.
4	Milestone descriptions	While it is not ideal, EPA will consider an interim milestone that triggers follow-on interim milestones once the remedial design and remedial action has progressed.			Plateau Fa	nitting a draft Central cility Decommissioning in Principle in lieu of a

		DEVIEW COMMENT DECORD (DCD)		1. Date		2. Review No.
		REVIEW COMMENT RECORD (RCR)		3. Project No.		4. Page 3 of 3
12. Item	13. Page/Line	14. Comment(s)/Discrepancy(s) (Provide technical justification for the comment)	15. Recommend (Provide detailed recommendation necessary to correct/resolve	tion of the changes	(Provide	16. Disposition justification if NOT accepted.)
		However, the date of September 30, 2012, is too far out for this milestone because that would stretch the design completion out and thus place in jeopardy all of the follow-on activities that must meet a critical path for completion of the remedial action.			change pac follow-on d	the M85-06-01 milestone kage. It is expected that liscussions will address lity remediation.

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5. Doc	ument Number(	s)/Title(s)		6. Program Number	/Project/Building	7. Reviewer	8. On	ganization/Group	9, Location	/Phone
	emedial Design/Remedial Action Work Plan e 221-U Facility (DOE/RL-2006-21, Draft A) Comment Submittal Approval:			221-U		Rick Bond, Jennifer Ollero, Oliver Wang	Was	ste Management		
7. Con	nment Submitta	l Approval:	10. A	greement w	ith indicated comm	nent disposition(s)	11. c	LOSED		
Date	Organization	Manager (Optional)		Date	Reviewe	er/Point of Contact		Date	Reviewer/Point of	f Contact
3/7/07	Ron Skinnari	and			Jennifer Ollero			· · · · · · · · · · · · · · · · · · ·		
					Aut	hor/Originator			Author/Origin	nator
Item	Location in Document		Comment				Hold Point	_	n (Provide NOT accepted.)	Status

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General: Suggest re-formatting RD/RAWP for clarity and consistency with the 221-U Record of Decision, and the RD/RAWP for the 200 North Area Waste Sites (DOE/RL-2006-69, Draft B).

Justification: The current RD/RAWP as written is difficult to follow. The project phases are not well defined.

Modification Needed: Suggest re-formatting the sections as follows:

1.0 Introduction:

1.

- 1.1 Purpose
- 1.2 Scope,
- 1.3 Description of ROD,
- 1.4 Updates to RD/RAWP
- 2.0 Basis for Remedial Action:
  - 2.1 Record of Decision Summary and Decision Definition
  - 2.2 RAO
  - 2.3 RAG
  - 2.4 Application of RAGs
  - 2.5 ARARs
  - 2.6 Remedy Description
- 3.0 Remedial Design Approach
- 4.0 Remedial Action Approach and Management
  - 4.1 Project Team
  - 4.2 Remedial Action Work Activities
  - 4.3 Project Schedules and Cost Estimate
  - 4.4 Change Management/Configuration Control
  - 4.5 Remedial Action Planning Documentation
  - 4.6 Attainment of RAOs
  - 4.7 CERCLA Cleanup Documentation
- 5.0 Environmental Management and Controls
  - 5.1 Waste Management
  - 5.2 Standards Controlling Releases to the Environment
  - 5.3 Reporting Requirements for Non-routine Releases
  - 5.4 Release of Property (if Applicable)
  - 5.5 Cultural and Ecological Resource Protection Standards
  - 5.6 Radiation Controls and Protection
  - 5.7 Quality Assurance
- 6.0 References

Accept. The 221-U RD/RAWP format will be modified to more closely match the suggested format.

2.

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General: This RD/RAWP needs to identify what is and is not addressed, but was identified as a requirement in the ROD. Specifically, there are certain actions that were identified in the ROD (e.g. detailed schedules, points of compliance) that are either not in the document or do not meet the intent of the requirement. If DOE plans to develop this RD/RAWP in phases, and revise as conditions change, then the introduction of this Plan needs to reflect how the Plan is being developed.

**Modification Needed:** Update the Introduction to include a discussion on how the RD/RAWP is being developed and implemented.

Accept; The Introduction and portions of the RD/RAWP addressing remedial design will be revised to include a discussion of a phased approach to completion of design. Additionally, Figure 3-1 will be revised to show the phased approach to design and document development.

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#### 3. Section 4.0

General: This document does not read as a Remedial Design/Remedial Action Work Plan. The Remedial Design Approach, per the TPA Action plan (Section 7.3.9) requires:

"A number of items will be completed during the RD phase, including, but not limited to the following:

- Completion of design drawings
- Specification of materials of construction
- Specification of construction procedures
- Specification of all constraints and requirements (e.g. legal)
- Development of construction budget estimates
- Preparation of all necessary and supporting documentation"

The RD section of this Plan does not adequately address these elements.

Modification Needed: Suggest that the RD section be revised to reflect elements of design that are being subcontracted out to meet the intent of the first 3 bullets. Suggest "beefing" up the RD section to include discussions of any constraints, requirements, etc. As currently written, the RD section does not have enough detail to qualify as "design".

Accept: The Introduction and portions of the RD/RAWP addressing remedial design will be revised to include a discussion of a phased approach to completion of design. Additionally, Figure 3-1 will be revised to show the phased approach to design and document development. The RD/RAWP contains only conceptual design information that is currently available, and detailed design will be provided in separate Remedial Design Report documentation.

However, it should be noted that early remedial activities associated with canyon reactivation do not necessarily involve engineering "design"; rather, these activities involve skill-of-the-craft level work, such as load testing and repairing the crane. Therefore, RL intends to apply a graded approach to design and document development for the various remedial activities.

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4.

General: An RD/RAWP implements the selected remedy of the ROD. This document is written as though selection of a remedy hasn't occurred. There appears to be a significant amount of "cut and paste" from the ROD, which is acceptable, but must still be updated to reflect the current phase of the project and should be expanded upon.

Modification Needed: Revise the document to implement the remedy. Specifically, page 2-4, Section 2.3.2 Description of Construction Component of the Selected Remedy, 1<sup>st</sup> bullet: "Residual materials that would have transuranic isotope concentrations greater than 100 nCi/g after stabilization (such as the contents of a tank in process cell 30) will be removed and dispositioned prior to stabilization in accordance with the approved RD/RAWP." This is the same language that appears in the ROD on page 49. This RD/RAWP often reads as a pre-decisional documentation or the ROD. Consequently, this RD/RAWP is supposed to be the "approved RD/RAWP."

Accept; However, the RD/RAWP is required to contain only conceptual design information, and Chapter 5 of the RD/RAWP does contain some discussions of the remedial action approach at a conceptual level. This chapter also refers the reader to additional. detailed studies that have been performed, or are in the process of development (e.g., Cell 30 Tank Disposition study). Additionlly, newly prepared conceptual design information will be added to the revised RD/RAWP.

The Introduction and portions of the RD/RAWP addressing remedial design will be revised to include a discussion of a phased approach to completion of design. Additionally, Figure 3-1 will be revised to show the phased approach to design and document development.

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5.	General: This RD/RAWP doesn't follow the ROD Requirements: page 49 of the ROD states that the RD/RAWP will "document the point of compliance for groundwater protection" however, this document doesn't mention the point of compliance. Please include with justification.  Modification Needed: Please include a discussion on how or when the point of compliance for groundwater protection will be addressed in the justification.	Accept; The point of compliance for groundwater protection will be established during a later phase of remedial design. This fact will be indicated in the revised RD/RAWP.	
		The Introduction and portions of the RD/RAWP addressing remedial design will be revised to include a discussion of a phased approach to completion of design. Additionally, Figure 3-1 will be revised to show the phased approach to design and document development.	
6.	General: The ROD requires that "The schedule and procedures that will be used to implement the multi-year work effort required by the ROD will be described and documented in the RDR/RA." However, this document does not provide enough detail to adequately address a "multi-year" work effort.  Modification Needed: Please include a discussion into the Project Schedules and Cost Estimate Section.	Accept; The RD/RAWP provides conceptual information regarding the undertaking of the remedial action. As noted in Section 3.2, the cost estimate will be revised as design progresses. Additionally, Figure 3-1 will be revised to show the phased approach to design and document development.	

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7.		General: This Plan doesn't identify how or when the document will be updated.  Modification Needed: Please include a discussion on updates to the RD/RAWP.  May want to include a provision to allow updates to the Work Plan via the Unit Manager Meetings and the frequency for updates.	Accept; The Introduction and portions of the RD/RAWP addressing remedial design will be revised to include a discussion of a phased approach to completion of design. Figure 3-1 will be revised to show the phased approach to design and document development. Additionally, text will be added to address future revisions to the work plan.	
8.	Page 1-1, Section 1.0, line 26, last sentence	Specific: Add the following sentence to the paragraph, "The U Plant is referred synonymously as the 221-U Facility Complex, or simply 221-U Facility in many Hanford documents."	Accept; The sentence will be added to the text as requested.	
9.	Page 1-6, last paragraph And Page 3- 2, Section 3.2	Specific: The ROD requires a detailed schedule. This RD/RAWP does not contain a detailed schedule or an explanation of a "phased" approach.  Modification Needed: Revise/update the RD/RAWP to include a discussion detailing how schedules will be handled in this document.  Justification: The RD/RAWP must address actions specified in the ROD, or outline an agreed to approach for how the requirement will be addressed.	Accept; The Introduction and portions of the RD/RAWP addressing remedial design will be revised to include a discussion of a phased approach to completion of design. Additionally, Figure 3-1 will be revised to show the phased approach to design and document development.	

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10.	<i>a</i> ,	Specific: The RAOs need more detail. This section is too light in the		Accept; The remedial action	
	Section 2.2.1	requirements and are not specific enough to meet the requirement of the ROD.		objectives were discussed in	
		Modification Needed: Suggest revising to include a definition of what an RAO		detail in the Final Feasibility Study for the Canyon	• .
		is (example: RAOs are site-specific goals that define the extent of cleanup		Disposition Initiative (DOE/RL-	
,		necessary to achieve the specific level of remediation at the site."		2001-11, Revision 1) and the	
'		Also suggest identifying the RAO and then describing how that RAO will be		Proposed Plan for Remediation	
,		achieved. (see text in DOE/RL-2006-69, Draft B, page 2-1)		of the 221-U Facility (Canyon	
	ļ			Disposition Initiative), DOE/RL-	
i	į			2001-29, Revision 0). The level	·
			·	of detail for the RAOs was also	
				finalized by the Tri-Party	
			,	Agencies in the ROD. However, some additional explanatory	
				text will be provided.	
			<del></del>		
11.		Specific: The statement regarding PRGs (preliminary remediation goals)	-	Accept; The text will be clarified	
	Section 2.2.2 and 2.2.3	in Section 2.2.2 is misleading. Section 2.2.2 states that "Each of the		to revise the conflicting statements.	
i i	and 2.2.3	remedial alternatives discussed in the final feasibility study was evaluated against the PRGs as a part of the CERCLA decision-making process." In		statements.	
		the same paragraph, it also states that "A list of PRGs was developed to			
		define the specific cleanup goals that will result in achievement of the			
		RAOs (remedial action objectives)." However, Section 2.2.3 states that			
		"when a remedy is established that leaves contamination in place, the			* .
ř	·	remedy is not based on cleaning up to RAGs, but rather on containing the			
		contamination in such a fashion that it presents an acceptable level of risk	; · .		
		to human health and the environment." These conflicting statements need			
		to be clarified.			
	1	1		1	]
	'	[	1.0		ļ .

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	Page 2-5, 3 <sup>rd</sup> bullet	Specific: Please define how surface contamination on the canyon walls, deck and ceiling will be addressed in more detail.	This section of the RD/RAWP provides a basic description of the selected remedy. Additional conceptual level information, including methods of addressing surface contamination, is provided in Chapter 5.0. (See Section 5.3.3.)	
13.	Page 2-5	<b>Specific:</b> Missing a discussion of the engineered barrier (from page 52 of the ROD).	A discussion of the engineered barrier is provided in the 5 <sup>th</sup> bullet on Page 2-5, and is based on the discussion provided in the ROD.	
14.	Page 2-9, Section 2.4	Specific: Two ARARs that were identified in the ROD have been omitted from the RD/RAWP. Specifically, WAC 173-340 and 173-201A. Please provide justification for removal.	Accept. RL believes the WAC 173-340 and 173-201A ARARs were included in the ROD in error and that these are not	
			ARARs to the selected remedy. These ARARs were identified as	
			ARARs to the selected remedy.	

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15.	Section 3.0	Specific: The organization of this section is confusing. Suggest reorganizing (see Comment 1) for clarity and consistency with other RD/RAWPs.	Accept; The document will be re-formatted to more closely	
- 1000			reflect the format of the 200 North Area Waste Sites RD/RAWP (DOE/RL-2006-69, Draft B) and the Remedial Design Report/Remedial Action Work Plan for the 100 Area (DOE/RL-96-17, Revision 5).	
16.	Page 3-2 (Figure 3-1) and Page 3-3 (Table 3-1)	<b>Specific:</b> Figure 3-1 (Page 3-2) and Table 3-1 (Page 3-3) describes the 10-year project schedule and associated cost estimates of \$125,900,000 with assigned narrow range of accuracy. Not enough information is provided to explain these important data and analyses. A couple of pages description including estimate methodology and contingencies would help Ecology understand the project schedule/cost processes.	A detailed cost estimate was provided in Appendix K of the Final Feasibility for the Canyon Disposition Initiative (DOE/RL-2001-11, Revision 1). The information contained in the RD/RAWP is reflective of design	
			information that was available at the time the RD/RAWP was prepared. This information will be refined as the design matures.	
17.	Page 3-6 Section 3.3.4	Specific: No discussion of a Mitigation Action Plan.  Modification Needed: Please revise for inclusion of a Mitigation Action Plan.	Accept; text will be added to the RD/RAWP to address the Mitigation Action Plan.	

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18.	Page 3-20, Section 3.3.12	Specific: This section does not contain enough detail on attainment of the RAOs.  Modification Needed: Suggest revising section to include more detail on how the RAOs will be attained through the selected remedy.	R F	ccept; Additional detail egarding the attainment of AOs was provided in the Final easibility for the Canyon isposition Initiative (DOE/RL-	
			20 3. de R H	001-11, Revision 1), Chapter 0. RL feels that the level of etail provided in the D/RAWP is sufficient. owever, some clarifying enguage will be added to this ection.	
19.	Page 4-2, Line 21	Specific: "A graded approach will be implemented as part of the design process" What is a "graded approach" for design?	fo	ccept. A "graded approach" r design refers to the fact that	- '
			the (expense) of the control of the	ne early remedial activities  leactivation) do not involve true regineering design elements.  For such activities, development  Formal design will not occur  Ithough additional  Formation beyond what is in  The RD/RAWP will be provided  RDR format). However, later  The emedial actions (e.g.,  The instruction of the barrier) will  Equire development of true  The ingineering design.  Italian instruction will be provided.	

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20.	Page 4-2, Section 4.3.1	Specific: design?	What wil	l be inclu	ided in the	e first des	sign packa	ige? Wh	at is requ	ired for		Accept. The first "design package" (RDR) will contain	
		San Control	-	•		, s						information regarding canyon	
									4			system reactivation (e.g.,	
	*						£*	•				reactivation of the railroad	
					: •							tunnel). However, as stated in	
			÷									the responses to comments #3	
												and #19, canyon reactivation	1
									-			generally will not require true	
												engineering design; rather, it	
												will involve skill-of-the-craft	
	!					-			•			level work. Therefore, a graded	
												approach to development of design and RDR documentation	
	-					• •						must be applied.	
21.	Page 5-1, Section 5.0	Specific:	Under wh	nat section	n of the ".	Remedia	l Action A	Approach	" is a disc	cussion		Accept. Removal of asbestos	
21.	Page 5-1, Section 5.0	Specific: on the rem	Under who was a second contract which was a second contract with the way and t	nat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes	
21.		Specific: on the rem	Under who was a second of as	nat sectio sbestos a	n of the "I	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these	
21.		Specific: on the rem	Under who to the second of as	nat sectio sbestos a	n of the " nd PCB co	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based	
21.		Specific: on the rem	Under whoval of as	nat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was	
21.		Specific: on the rem	Under whoval of as	nat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was made by EPA (as documented in	
21.		Specific: on the rem	Under who as	aat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was made by EPA (as documented in the ROD) for PCB	
21.		Specific: on the rem	Under whoval of as	nat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was made by EPA (as documented in the ROD) for PCB contaminated equipment left	
21.		Specific: on the rem	Under whoval of as	nat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was made by EPA (as documented in the ROD) for PCB contaminated equipment left within the canyon. However,	
21.		Specific: on the rem	Under whoval of as	aat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was made by EPA (as documented in the ROD) for PCB contaminated equipment left within the canyon. However, other drivers (such as safety	
21.		Specific: on the rem	Under wh	aat sectio sbestos a	n of the " nd PCB co	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was made by EPA (as documented in the ROD) for PCB contaminated equipment left within the canyon. However,	
21.		Specific: on the rem	Under whoval of as	nat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was made by EPA (as documented in the ROD) for PCB contaminated equipment left within the canyon. However, other drivers (such as safety regulations) may drive removal of such contaminants from outbuildings; discussion will be	
21.		Specific: on the rem	Under whoval of as	nat sectio sbestos a	n of the " nd PCB c	Remedia ontamina	l Action A	Approach ment pric	" is a disc or to dem	cussion olition?		Accept. Removal of asbestos and PCB contaminated equipment is not specifically discussed. The ROD includes ARARs addressing these contaminants, and a risk-based disposal determination was made by EPA (as documented in the ROD) for PCB contaminated equipment left within the canyon. However, other drivers (such as safety regulations) may drive removal of such contaminants from	

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DOE	cument Numbe RL-2006-21, R J Facility	er(s)/Title(s): lemedial Design/Remedial Action \	Nork Plan for the	6. Program/Project/Building 221-U Canyon	5. Program/Project/Building Number 7. Reviewer 221-U Canyon C. E. Cameron				A/Hanford Project Office   309 Bi		9. Location/Phone 309 Bradley Blvd., Suit 115/376-8665	e
17. Co	mment Submit	tal Approval:	10. Agreement w	with indicated comment disposition(s)				ED			<del></del>	
:												
	Organizatio	on Manager (Optional)		Reviewer	Point of Co	ntract			F	Reviewer/P	oint of Contact	
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12, Item	13. Page/Line		ment(s)/Discrepand al justification for the			15. Recomme etailed recommen sary to correct/reso	dation of the		(Provide		position on if NOT accepted.)	
	General	The document provides a need to be performed, but decision should have been though many of the details design phase. It would hat Department of Energy (DO deal with these challenges work plan. Specificity and abandoned because the warrant updates or change	there are some made on the as need to be deave been better DE) had made as and included! I decisiveness overk plan can be	e tasks where a approach even veloped during the if the U.S. a decision on how to this definitively in the do not need to be					Action Platon provision provision portions of remedial dinclude a dapproach the Additional will be reviapproach,	n, the RI on of con n. The I the RD esign wi liscussion to compl ly, the g ised to s includin revision	nce with the TPA D/RAWP will focus aceptual design introduction and RAWP addressing Il be revised to n of a phased etion of design. raphic in Figure 3- how the phased g submittal of ns and design propriate.	gr S
2	Specific	One particularly noteworth to refine the plan for the relow-risk rubble. There sho of this rubble as fill, for the any other portions of the scan be used to offset reso Screening levels for radious should be defined to bound Methods of using field instradionuclide levels and produced the rubble described so that the rubble constitution is the rubble constitution of the	emedial action in could be no ambould be no amboured by the bounce use at bouncides associated what is mear truments to scredures for deents are preser	is the disposition of siguity about the use ent excavation, or arrier. This rubble rrow areas. ated with the rubble at by "low-risk". een rubble based on etermining if need to be					discussion fill in mult RD/RAWI included re pathway fo not to be " details reg rubble as i later phase	regarding iple loca  Information of the local ingular	onceptual level ag use of rubble as tions in the mation will be the disposal at that is determined." Additional he use of low-risk a developed in a gn. Figure 3-1 will ta phased approact	e <b>đ</b>

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		disposal pathway for rubble that fails to meet the low-risk criteria should also be defined in this document.	L		for design a	and document development.
3	General	Other examples of indecision include the "disposition" of the wing wall of the railroad tunnel and a lack of rules to direct revegetation of disturbed areas (when to revegetate considering the industrial land use). These planning decisions need to be made and then proposed in the draft document. The rules and criteria used to guide and control activities have to be present for the work plan to be used effectively.			disposition revegetatio developed i Figure 3-1 phased app	tails regarding the of the wing wall and n of the barrier will be in a later phase of design. will be revised to depict a proach for design and levelopment.
4	Specific	Another reason this document is deficient is its lack of performance standards developed to benchmark the performance of the remedy. Section 11.6 of the Tri-Party Agreement Action Plan contains requirements for work plans such as RD/RA work plans. This section includes the following statement, "At the time work plans are submitted for approval they shall describe in detail the work to be done and include the performance standards to be met." The only performance standard presented in the work plan submitted by DOE for review is for barrier performance (meeting an infiltration rate of 3.2 mm/yr long-term average). This performance standard was actually specified in the ROD to shore up monitoring requirements for the non-traditional barrier design (evapotranspiration barrier) and because the remedy will not have a traditional liner-leachate collection system.			provision of information portions of remedial dinclude a dapproach the Additional will be revi	e RD/RAWP will focus on f conceptual design a. The Introduction and the RD/RAWP addressing esign will be revised to iscussion of a phased o completion of design. ly, the graphic in Figure 3-1 sed to show the phased or design and document at.
5	General	Unfortunately, the document is also lacking the description of the types of performance monitoring that will need to be conducted to demonstrate that the performance standard is being met.			pertaining will be add detailed in performan available u Figure 3-1 phased app	to performance monitoring ed to the text. More formation will regarding ce monitoring will not be ntil a later phase of design. will be revised to depict a proach for design and development.
6	Specific	One thing that should have a standard is the performance of grout in supporting the structure or immobilizing waste.  Modeling of contaminant transport within the monolith of the constructed remedy should have been utilized to develop			performan	will incorporate ce standards as appropriate s at the conceptual stage of

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		specific criteria to use for grout formulation.				
7	General	Other performance standards might include measures of the effectiveness of institutional controls, and bounding accumulation levels in high-volume air samplers. The maximum amount of radionuclides on air sampler media should be specified since the monitoring locations have already been identified and potential-to-emit calculations have been performed for the main phases of the remedial action. These examples are by no means exhaustive.			performan to activities design. Ho of high-vol establishmo radionuclid	will incorporate ce standards as appropriate at the conceptual stage of wever, RL believes that use ume air samplers and ent of maximum allowable les on air sampler media is ate for the 221-U remedial
8	General	The document is not much more than a compilation of information from the feasibility study and ROD. In fact, the feasibility study appendices have much more detail and seem to indicate that more thought was put into these early planning efforts than those used to develop this document.			information revised RD matures, the revised aga incorporate	vailable conceptual design in will be provided in the /RAWP, and as the design ie RD/RAWP will be in as appropriate to ie new conceptual design in as it is developed.
					feasibility s developed for the pur alternative provided in	e noted that the final study appendices were to support estimates of cost poses of remedial evaluation. Details a the appendices do not reflect the actual design of al action.
9	General	Studies which are being used to support the remedial design need to be described in more than a cursory fashion, especially since they may provide much needed detail. According to EPA guidance (EPA 540-G-90-001), a work plan for remedial design must include design criteria and assumptions. The document contains few examples of design criteria and the majority of those examples are qualitative.			informatio revised RD matures, the revised aga incorporat	vailable conceptual design n will be provided in the l/RAWP, and as the design ne RD/RAWP will be nin as appropriate to e new conceptual design n as it is developed.
10	General	One of the prime issues that has affected the review cycles of work plans and other plans has been the pulling back of detail			1 -	ne Introduction and the RD/RAWP addressing

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		that is necessary to describe activities. This document is like many submitted in recent years that have a paucity of details describing important functions or tasks. There either needs to be enough detail provided in the work plan to understand what is being done in the field or laboratory, or the specifics need to be in a regulatory citation or referenced (named or numbered) procedure that is available to DOE and the regulatory agencies.			include a d approach t Additional will be revi	esign will be revised to iscussion of a phased o completion of design. ly, the graphic in Figure 3-1 sed to show the phased or design and document nt.	
11	General	The scope and complexity of the remedial design and remedial action for the 221-U Facility are more like those of the K-Basins project than they are like the dig-and-haul actions in the river corridor. Considering this, the K-Basins work plan (DOE/RL-99-89, Revision 1) draws a much better connection between the ARARs and the activities and procedures that will be used to fulfill them. DOE needs to provide a similar link between the ARARs and the planned work for the 221-U Facility.			containing compliance appropriat RD/RAWP portions of remedial d include a d	ocument is an RDR/RAWP more advanced design and einformation than se for the 221-U Facility. The Introduction and the RD/RAWP addressing esign will be revised to iscussion of a phased to completion of design.	
					Additional revised to s for design	ly, Figure 3-1 will be show the phased approach and document development. sted information will be a future Remedial Design	
12	Specific	The document does not fulfill the requirement in the ROD to include a more detailed map showing the site and land use control boundaries. EPA appreciates the map showing the entire U Plant area (including 200-UW-1 waste sites and ancillary facilities) and the one showing placement of support areas during the construction of the remedy. However, there is no map in the document with comparable or greater detail than Figure 7 from the ROD. That figure illustrates the preand post-remediation land use control boundaries.			Accept; The to include a land use continitial remembers to boundaries implement	ne RD/RAWP will be revised a figure delineating site and patrol boundaries during edial activities. These is will change during remedy ation, and the figure will be reflect the changes as the	
13	Specific	The document should be revised to require that a new Sampling and Analysis Plan be developed to cover post-ROD sampling activities focused on waste designation and management.			Section 3.6 of the sam completed, will contin	he following text is found in 5.2: "Although the majority pling activities have been the field analytical team ue to perform any sampling and analysis in	

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					SAP will be clause will sentence, as will be prep	e with this SAP, or a new e prepared as needed." A be added to the end of this s follows: "a new SAP pared as needed (e.g., to ste designation and nt).
14	Specific	The waste management section needs to indicate that it is the waste management plan.			Accept; Th	e text in Section 3.3.5 will as requested.
15	Specific	Also, the schedule should call out when the Remedial Design Report (including a 90% design) will be submitted to the regulatory agencies per Section 7.3.9 of the Tri-Party Agreement Action Plan. The Operations and Maintenance Plan submittal also should be included in the schedule.			Accept; Inf future sub- information	formation pertaining to mittals of 90% design and the Operations and ce Plan will be included in
16	Specific	The role of the regulatory agencies needs to be correctly portrayed in the document. The project managers for all three parties should be identified as decision makers in Section 3.1. The document should also be modified to indicate that the regulatory agencies can take an extension in the review of design packages without needing permission from DOE, which is consistent with the Tri-Party Agreement.			Accept; The requested. discussion the TPA Accept:	e text will be revised as The text will also include a stating that, consistent with ction Plan, the 90% design rimary document.
17	Specific	The last sentence of Section 3.2.1 needs to be replaced with the sentence that is in DOE/RL-99-89 (Revision 1) and accurately reflects EPA's role. That sentence should read, "The EPA will make a determination of the significance of the change and appropriate documentation will follow based on the type of change." However, there is some question about the utility of describing in the RD/RA work plan the process by which a decision document is modified. The RD/RA work plan should focus more on how changes are made to the plan itself.			be revised	te text in Section 3.2.1 will to focus on how changes le to the RD/RAWP.
18	Specific	The closeout guidance contained in Appendix A is not consistent with EPA guidance from the Superfund Program Implementation Manual. A final closeout report is restricted to closing an entire NPL site, not a portion of one. EPA believes that a construction completion report would be more appropriate for the intended purpose. Also, eventually the information needs to be rolled up in a Remedial Action Report.			determined phase of th	owever, Appendix A was I to be unnecessary at this e remedial action; it will be deleted from the O/RAWP.

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		There may be several ways that this can be accomplished including the possibility of combining information from more than one canyon or remedial action. EPA is willing to meet with DOE and the Washington Department of Ecology (Ecology) to discuss closeout of remedial actions. There are pertinent sections of the Tri-Party Agreement Action Plan (e.g., Section 7.3.10) and guidance such as that contained in EPA 540-R-98-016 that we should discuss. Whatever the report ends up being called, it needs to be added to the administrative record file.					
19	Specific	EPA does not understand why there is an appendix discussing the baseline risk assessment (Appendix B). If there is a good reason for inclusion, please explain. Also, if the appendix material is retained, it should describe the approach used to estimate ecological risk as this is an important part of the baseline risk assessment. Text in the feasibility study and ROD should help in writing this part.				is appendix will be deleted evised document.	
20	Specific	The text of Appendix C should indicate that the public involvement plan is consistent with the public involvement plan for the Hanford Site. Also, DOE should make sure they plan to do all of the things in this specific plan.			indicate the	e text will be revised to at the public involvement sistent with the Hanford involvement plan.	
21	General	To conclude, the design and remediation process for this project will require a multi-year, multi-phase effort. The document has a commitment to revise the work plan when the design of the barrier has progressed. It must contain a commitment to provide updates at logical points in the remedial design and remedial action planning process and those points need to be identified to the extent possible at this time.			portions of remedial d include a d approach t Additional revised to	ne Introduction and the RD/RAWP addressing esign will be revised to iscussion of a phased o completion of design. ly, Figure 3-1 will be show the phased approach nd document development.	
22	General	There are a few additional, minor comments that EPA would be like to provide at the project level. EPA requests a meeting to pass along these additional comments and to provide an opportunity to clarify comments contained in this letter.			of commen 20, 2007 ar requested,	received an additional set its in letters dated March ad April 23, 2007. As meetings were held to comments.	
23	2-3	Section 2.2.3. The author is confusing the concept of a containment remedy with the use of RAGs or cleanup levels. The statement in the last sentence is applied too broadly and is in conflict with the fact that one is allowed to leave behind			Accept; the made.	e suggested revisions will be	

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		contamination as long as it meets the RAGs and that such a situation does not constitute a containment remedy. Please revise to accurately characterize how RAGs are applied in concept and than explain that the remedy for 221-U is a containment remedy that does not rely on meeting cleanup levels, but rather on limiting or preventing exposure.					
24		EPA received an advance copy of the comments from Ecology and believes that they are good comments. They had an especially good catch on the fact that a groundwater point of compliance was not spelled out in the work plan. It is not acceptable to put off the details of the groundwater monitoring until the other U Plant area decisions are made. This is basically a CERCLA disposal unit (similar to ERDF) and it must meet the substantive requirements of the landfill regulations that are ARARs. This leaves little room for debate about where the point of compliance must be located (i.e., the edge of the landfill structure or just off of the cap toe). The facility has a large cross-sectional area with respect to the groundwater flow direction and EPA believes that if hydrologic conditions warrant more than 1-up-3-down, then this should be accounted for in the design. At a minimum there needs to be a 1-up-3-down monitoring network and this needs to be covered in the work plan. However, considering that integration is important and the other U Plant area decisions will be made before the remedy for 221-U is constructed, changes can be made in future revisions of this work plan (and the O & M plan) to maximize the use of an area-based monitoring scheme as long as it isn't too much of a stretch from the standard landfill approach and the point of compliance does not change.			groundwate established remedial de indicated in The Introd RD/RAWP design will discussion completion Figure 3-1 phased appropriate that althous requirement regulations ROD, RL's remedial awill not con	e point of compliance for er protection will be during a later phase of esign. This fact will be a the revised RD/RAWP.  uction and portions of the addressing remedial be revised to include a of a phased approach to of design. Additionally, will be revised to show the broach to design and levelopment.  also like to point out to EPA gh the substantive at the landfill are listed as ARARs in the coin for the 221-U Facility istitute a "CERCLA"	
25		As indicated in the EPA comment letter from March 7, the coverage of ICs in the work plan is not much more than a cut-			Accept; Th	stated in the comment.  te discussion of ICs will be reflect specific actions that	
		and-paste of what is in the ROD. The sitewide IC plan provides for the use of the RD/RA work plan and the O & M plan to provide the detailed processes or procedures for implementing the ICs. It was EPA's expectation that more detailed implementing procedures would be provided in the RD/RA work plan. These details need to be added to the			will be und during init informatio remedial a	ertaken to implement ICs ial remedial activities. This will be modified as the ction progresses. The O&M ddress post-remedial action	

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		revised work plan. Similarly, the O & M plan will need to have the implementing details for the post-construction/monitoring phase.			ICs.	
26	5-14/Line 1	Section 5.5.2. It should be "selected remedy" instead of "preferred remedy."			Accept; Th	e text will be revised y.

#### ENCLOSURE 2

Draft Tri-Party Agreement Agreement-In-Principle (AIP) for Central Plateau Facility Disposition

Consisting of 3 pages, including cover page



#### Tri-Party Agreement

#### NEGOTIATION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER REVISIONS FOR CENTRAL PLATEAU FACILITY DISPOSITION ACTIVITIES

The Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) addresses the disposition of key Hanford Site facilities in Section 8.0 of the Action Plan, Facility Decommissioning Process. The disposition path, as well as the roles of the U.S. Department of Energy (DOE) and the lead regulatory agencies, the U.S. Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology), are broadly defined for facilities designated by the Tri-Party Agreement agencies as "key facilities" in Section 8.0. However, disposition path details for specific facilities (whether or not the facility is a "key facility") is not defined and has typically been determined on a case-by-case basis as the need arises. The Parties have entered into this Agreement in Principle to define the Parties' intent in negotiation and to establish the scope and schedule of the negotiations.

In light of the preceding, DOE, EPA, and Ecology agree to the following:

- A. To enter into negotiations by [date TBD] to identify revisions to the Tri-Party Agreement to reflect the essential elements from CERCLA Section 120, 40 CFR 300.5, Executive Order 12580, the May 22, 1995 DOE/EPA letter (Policy on Decommissioning Department of Energy Facilities Under CERCLA), and recent Central Plateau facility binning technical discussions. These elements are limited to:
  - 1.) Lead agency and lead regulatory agency responsibilities and interactions for disposition of specific structures;
  - 2.) Graded approach to lead regulatory agency involvement (e.g., degree of lead regulatory agency involvement increases with the level of hazard);
  - 3.) Disposition decision and implementation document approval requirements;
- B. To use the changes to the Tri-Party Agreement to replace all or part of the Long-Term Facility Decommissioning Plan (DOE/RL-96-0046).
- C. That the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) will be baseline regulation for the disposition of Central Plateau structures. Resource Conservation and Recovery Act (RCRA) requirements for closure of Treatment, Storage and Disposal (TSD) units will be integrated where possible with CERCLA response action activities.
- D. To include in the negotiations, discussions on specific milestones for the following:
  - 1.) Implementation of the Record of Decision, 221-U Facility (Canyon Disposition Initiative), Hanford Site, Washington;
  - 2.) Disposition of Tri-Party Agreement "key facilities" for which milestones have not already been established;
  - 3.) Disposition of Central Plateau TSD structures;



#### Tri-Party Agreement

- E. To revise the relevant sections of the Tri-Party Agreement Action Plan to reflect the path forward as negotiated.
- F. That EPA and Ecology will serve in their capacities as lead regulatory agencies for facility disposition negotiations.
- G. To cooperate to provide briefings as determined to be appropriate to the State of Oregon, affected Indian Nations, the Hanford Advisory Board, and other stakeholders pursuant to the Community Relations Plan.
- H. To ensure that respective Headquarters' staff are kept up-to-date on negotiation progress and issues, and to inform each other in a timely manner of any specific concerns that may impact negotiations.
- I. To conclude negotiations no later than [date TBD.] Any of the Parties may terminate negotiations by written notice to the other Parties.
- J. Conduct the negotiations consistent with any agreements of the larger Tri-Party Agreement discussions currently in progress.

The Parties sign this agreement through cooperation and neg of 2007.				chieve, day
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Jay Manning, Director State of Washington		Michael J. Weis, J. U.S. Department		-
Department of Ecology		Richland Operation		

Elin Miller, Administrator
U. S. Environmental Protection Agency
Region 10